

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648413

Luminaire Tested: **GALN-SA5B-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23285.6 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

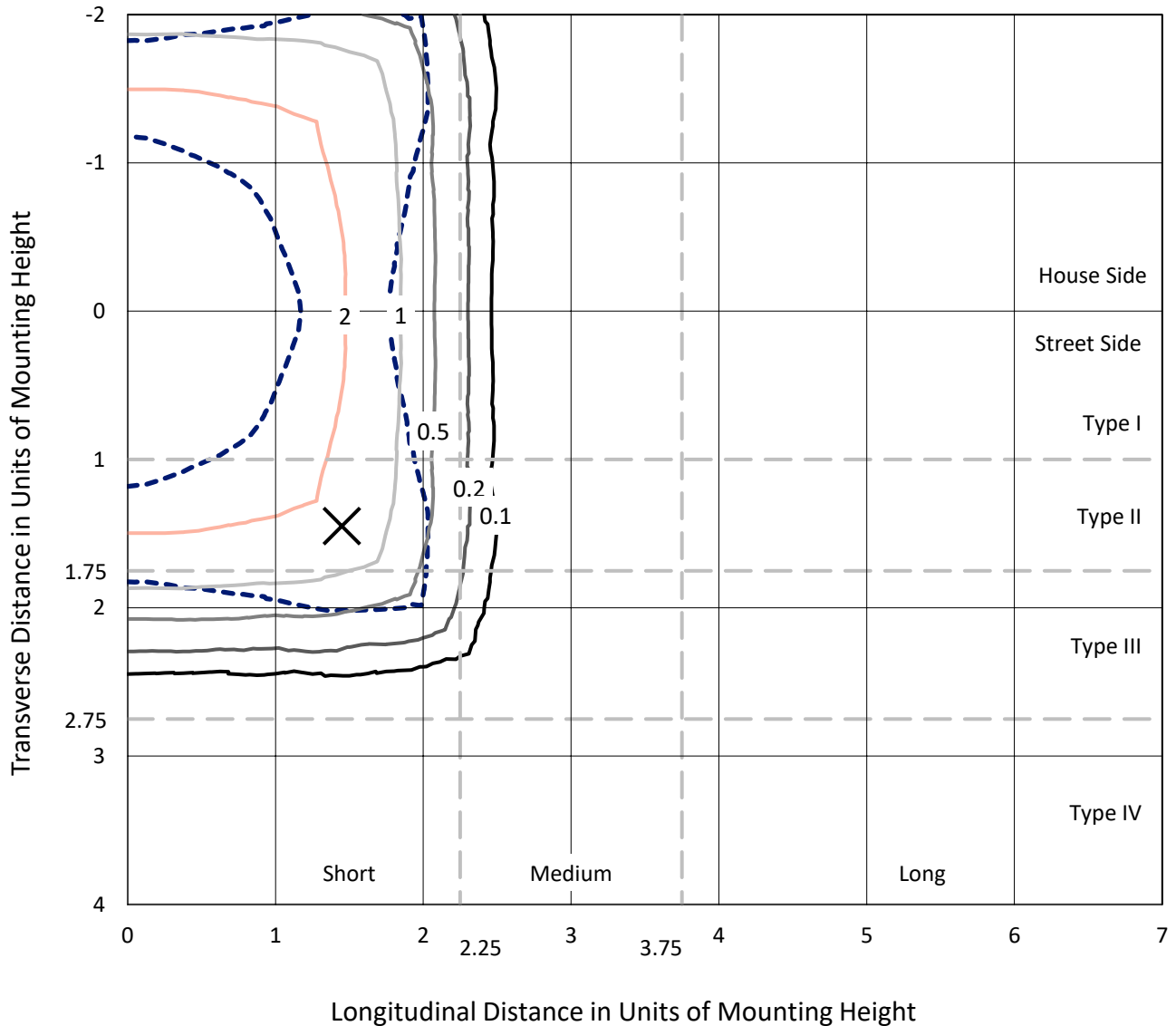
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648413
 CATALOG NUMBER: GALN-SA5B-835-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

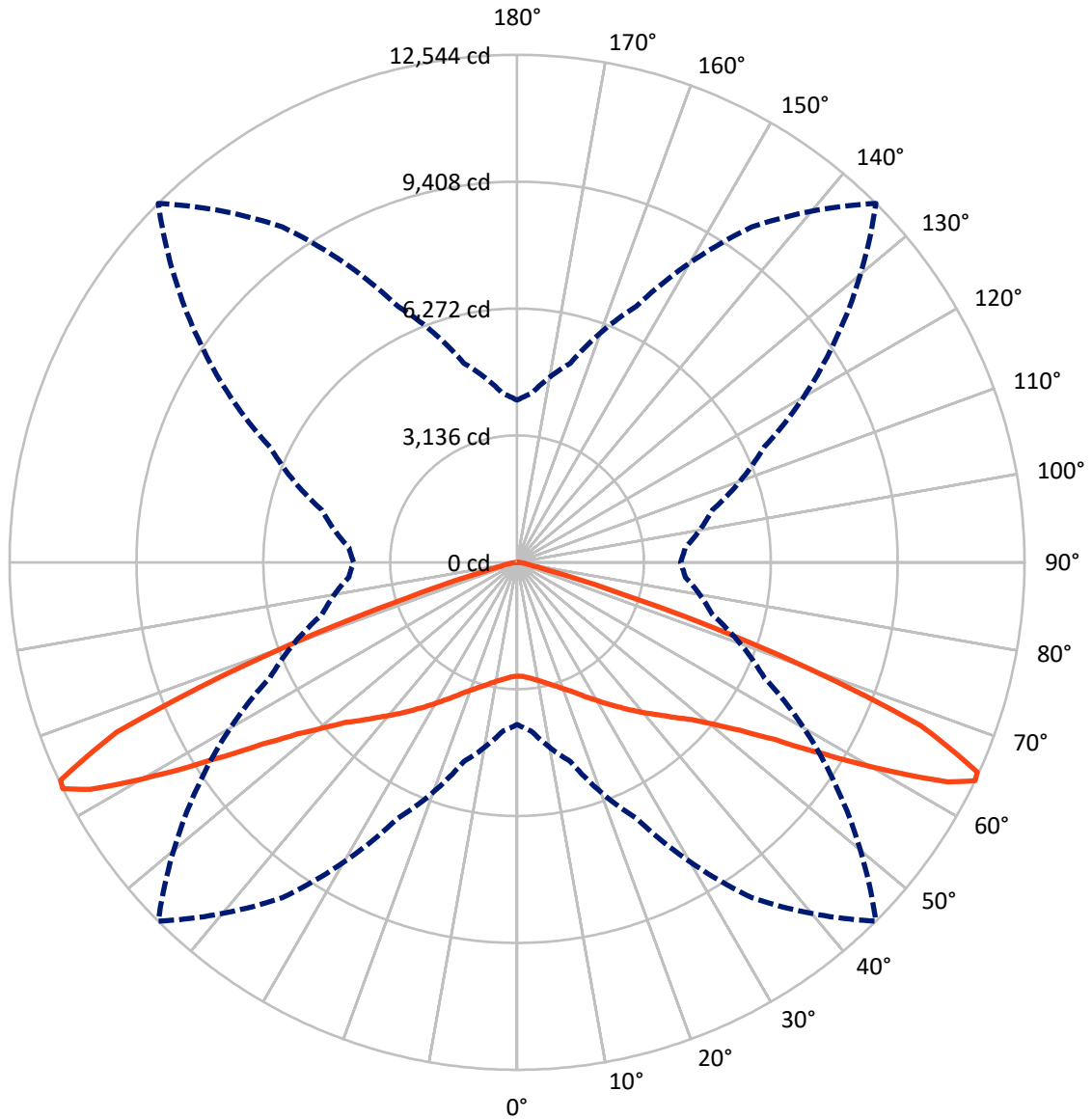
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

REPORT NUMBER: P648413
CATALOG NUMBER: GALN-SA5B-835-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P648413
 CATALOG NUMBER: GALN-SA5B-835-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11642.8	0.0	11642.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11642.8	0.0	11642.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23285.6	0.0	23285.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.2
10°-20°	891.9	3.8
20°-30°	1685.4	7.2
30°-40°	2791.3	12.0
40°-50°	4357.6	18.7
50°-60°	6736.7	28.9
60°-70°	5809.0	24.9
70°-80°	658.3	2.8
80°-90°	78.9	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23285.6	100.0
0°-180°	23285.6	100.0

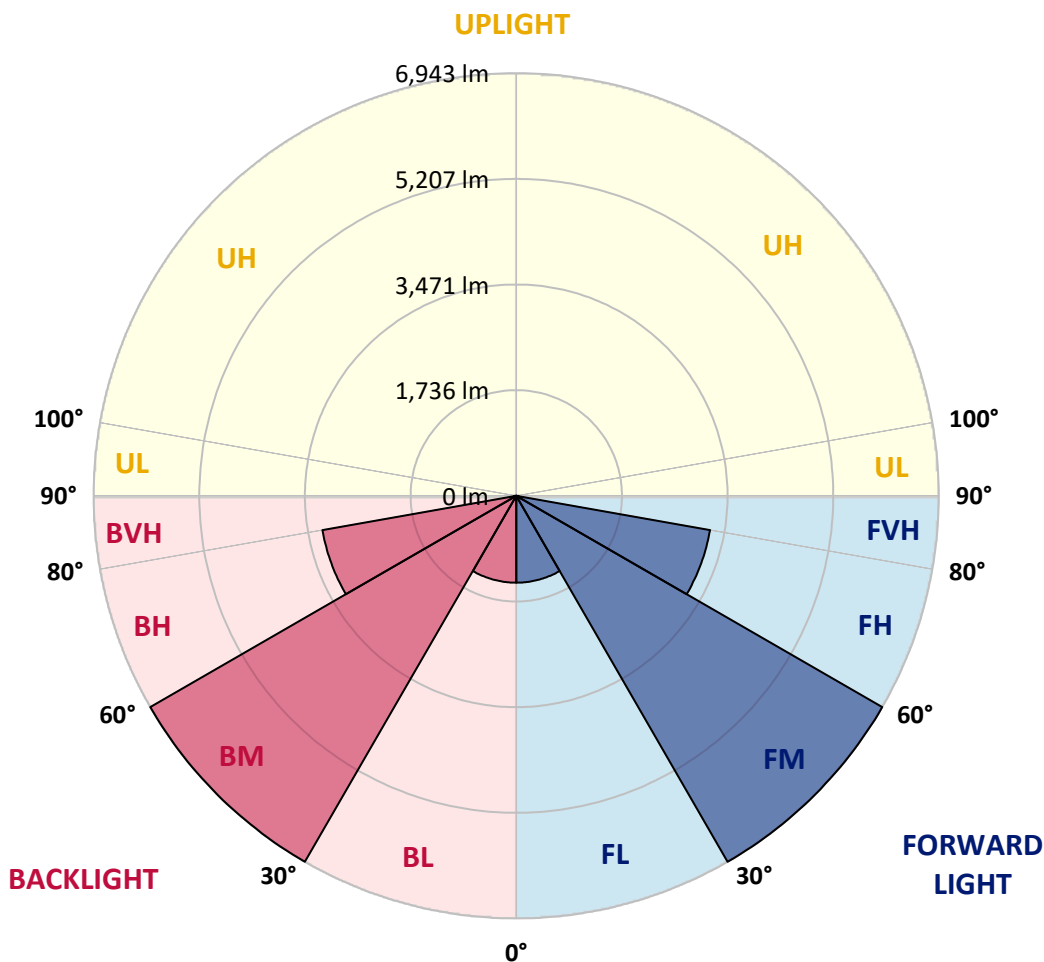


REPORT NUMBER: P648413
 CATALOG NUMBER: GALN-SA5B-835-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.9	6.1			
FM (30°-60°)	6942.8	29.8			
FH (60°-80°)	3233.7	13.9			G2/5000
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1426.9	6.1	B3/2500		
BM (30°-60°)	6942.8	29.8	B4/8500		
BH (60°-80°)	3233.7	13.9	B4/5000		G2/5000
BVH (80°-90°)	39.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





REPORT NUMBER: P648413
 CATALOG NUMBER: GALN-SA5B-835-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5	2814.5
2.5°	2825.5	2831.7	2826.8	2825.5	2824.4	2824.4	2824.4	2825.5	2830.5	2834.2	2831.7
5°	2861.3	2866.2	2863.8	2862.6	2861.3	2862.6	2860.1	2858.9	2862.6	2862.6	2861.3
7.5°	2905.7	2911.9	2909.4	2911.9	2913.2	2914.3	2908.2	2903.3	2902.0	2905.7	2903.3
10°	2966.2	2971.1	2972.3	2973.6	2976.0	2974.8	2967.4	2958.7	2957.5	2956.3	2955.0
12.5°	3034.0	3037.7	3038.9	3043.8	3047.6	3048.8	3040.2	3032.8	3020.4	3022.9	3018.0
15°	3110.5	3117.8	3116.7	3124.0	3133.9	3136.4	3127.7	3115.4	3104.3	3098.1	3094.4
17.5°	3204.2	3209.1	3206.7	3214.1	3226.4	3232.5	3225.2	3209.1	3198.0	3184.5	3177.0
20°	3315.2	3323.8	3326.3	3326.3	3337.4	3343.6	3332.4	3327.5	3310.3	3300.4	3294.2
22.5°	3441.0	3444.7	3452.1	3459.5	3470.6	3468.1	3464.5	3457.0	3441.0	3432.4	3422.5
25°	3582.9	3586.5	3605.0	3621.1	3624.7	3622.3	3617.4	3613.6	3598.8	3579.1	3571.7
27.5°	3748.1	3755.5	3780.2	3795.0	3795.0	3796.2	3786.4	3798.6	3766.6	3743.1	3740.7
30°	3955.3	3960.3	3981.2	3996.0	3988.6	3982.4	3980.0	3992.3	3957.8	3915.9	3906.0
32.5°	4160.0	4177.3	4195.8	4227.9	4202.0	4190.9	4188.4	4197.0	4157.6	4110.7	4097.1
35°	4379.6	4391.9	4426.5	4453.5	4430.1	4404.2	4415.3	4442.4	4395.6	4332.7	4330.2
37.5°	4622.5	4633.6	4678.0	4706.4	4689.2	4644.8	4663.2	4695.3	4648.4	4570.8	4554.7
40°	4875.3	4898.8	4954.3	4983.9	4955.5	4896.3	4930.9	4965.4	4923.4	4833.5	4797.7
42.5°	5159.0	5196.0	5276.2	5291.0	5236.7	5156.5	5217.0	5272.5	5242.9	5139.3	5125.8
45°	5490.8	5513.0	5611.7	5643.7	5568.5	5468.6	5543.8	5645.0	5622.7	5503.2	5477.2
47.5°	5862.0	5883.0	5985.3	6033.5	5938.5	5804.1	5939.8	6071.7	6058.1	5929.8	5917.5
50°	6301.1	6306.0	6447.8	6502.1	6407.1	6291.2	6412.1	6576.1	6521.8	6357.8	6355.4
52.5°	6782.1	6788.2	6967.1	7071.9	7018.9	6888.1	7031.2	7131.1	6993.0	6778.4	6762.4
55°	7199.0	7229.8	7474.0	7752.7	7825.5	7730.5	7773.7	7726.8	7386.4	7085.5	7038.6
57.5°	7369.1	7429.6	7800.8	8321.3	8794.9	8935.5	8602.5	8156.0	7543.0	7117.5	7071.9
60°	6953.5	7018.9	7594.9	8582.8	9791.4	10401.9	9465.8	8228.8	7186.6	6588.5	6516.9
62.5°	5568.5	5587.0	6434.3	7967.3	10372.3	11953.4	9829.6	7608.4	6149.4	5336.6	5308.3
64°	4007.1	4197.0	5094.9	6985.6	10118.2	12544.2	9620.0	6738.9	4995.0	4172.4	4039.2
65°	2997.0	3048.8	4107.0	5965.6	9670.5	12499.8	9213.0	5907.7	4136.6	3193.1	3045.1
67.5°	1132.2	1138.3	1515.7	2973.6	6884.4	10754.7	7031.2	3214.1	1742.7	1260.5	1214.8
70°	469.9	478.6	556.2	1000.2	2958.7	6905.4	3390.4	1159.3	637.6	516.8	509.3
72.5°	344.1	349.1	372.5	444.0	910.2	2835.4	1114.9	492.1	373.7	334.3	330.5
75°	270.1	272.6	289.9	326.8	424.2	785.7	463.8	337.9	284.9	256.5	254.1
77.5°	205.9	212.1	224.5	249.2	284.9	372.5	307.1	252.8	219.6	196.1	192.4
80°	141.8	149.2	172.7	182.5	191.1	241.7	209.7	191.1	171.4	143.1	134.4
82.5°	87.5	92.5	116.0	124.6	120.9	135.7	134.4	136.9	122.1	88.8	82.6
85°	45.6	48.1	62.9	65.4	60.4	55.5	69.1	80.2	75.2	50.6	49.3
87.5°	9.9	11.1	13.5	12.4	13.5	13.5	17.3	25.9	27.2	17.3	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)